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NEW WEATHER BUREAU PUBLICATION

Technical Paper No. 54, "Meteorological Summaries Pertinent to Atmospheric Transport and Dispersion Over Southern California," G. A. DeMarrais, G. C. Holtzworth, and C. R. Hosler, 1965. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Price, \$1.25.

For the southern California area south of 34.5° N. information is presented on the wind regime, both surface and aloft, temperature gradients and inversions, precipitation, and synoptic regimes. These summaries, in map and tabular form, give an indication of the manner in which effluents move from one place to another and of the capacity of the atmosphere in this region to reduce the concentration of effluents emitted into it. The data were originally intended for preliminary use in selecting nuclear reactor sites, but some may be used to evaluate community air pollution problems. The function of each of the summarized meteorological elements in the transport and dispersion of effluents is briefly explained.